## Index of Claims

## Application/Control No.

Applicant(s)/Patent under Reexamination

10/646,103 Examiner

LIU ET AL. Art Unit 2814

Rejected Allowed

(Through numeral) Cancelled Restricted

Non-Elected N Interference

Marcos D. Pizarro

Appeal Α o Objected

|       |          | _             | _       |               |          | _        | ,        |          |          |   |          |           |   |           |          |               |            |         |         |         |       |               |            | _    | _             |                |         |         | _        | ,        |          |
|-------|----------|---------------|---------|---------------|----------|----------|----------|----------|----------|---|----------|-----------|---|-----------|----------|---------------|------------|---------|---------|---------|-------|---------------|------------|------|---------------|----------------|---------|---------|----------|----------|----------|
| Cla   | aim      | L             |         |               |          | Date     |          |          |          |   | Claim    |           |   | Date      |          |               |            |         |         | ]       | Claim |               |            | Date |               |                |         |         |          |          |          |
| Final | Original | 12/8/04       | 4/11/05 | 12/15/05      | 11/16/06 | 2/28/07  | 8/16/07  | 11/30/07 |          |   | Final    | Original  |   |           |          | 1             |            |         |         |         |       | Final         | Original   |      |               |                |         |         |          |          |          |
|       | 1        | 4             | V       | A             | A        | H        | ⊢        | H        | $\vdash$ | ┨ | _        | 51        | Н | $\dashv$  | $\dashv$ | $\dashv$      | +          | +       | +       | +       | ł     | $\vdash$      | 101        | Н    | +             | +              | +       | +       | ╁        | Н        | -        |
|       | 2        | V             | Ť       | A             | A        | $\vdash$ | $\vdash$ | +        | $\vdash$ | 1 | _        | 52        | Н | $\dashv$  | _        | $\dashv$      | +          | +       | +       | +       | 1     | $\vdash$      | 102        | Н    | +             | +              | +       | +       | +        |          | $\dashv$ |
|       | 3        | V             | V       | A             | A        | $\vdash$ | $\vdash$ | 1        | $\vdash$ | 1 |          | 53        | Н |           | _        | $\dashv$      | _          | $^{+}$  | +       | +       | 1     | $\vdash$      | 103        | Н    | +             | $^{+}$         | +       | +       | $\vdash$ |          | $\neg$   |
|       | 4        | V             | V       | A             | A        | $\vdash$ | $\vdash$ | Т        | $\vdash$ | 1 |          | 54        | Н |           | _        | $\dashv$      | _          | $^{+}$  | $\pm$   | $^{+}$  | 1     |               | 104        |      | $\top$        | +              | $^{+}$  | $^{+}$  | т        |          | $\neg$   |
|       | 5        | V             | v       | A             | A        | $\vdash$ | -        | T        | $\vdash$ | 1 |          | 55        | Н | $\exists$ | _        | $\neg$        | _          | $^{+}$  | $\pm$   | $^{+}$  | 1     |               | 105        |      | $\top$        | +              | $^{+}$  | $^{+}$  | т        |          | $\neg$   |
|       | 6        | V             | V       | Α             | A        | T        | -        | т        | $\vdash$ | 1 |          | 56        | Н | $\Box$    | _        | _             | _          | $\top$  | $^{+}$  | $^{+}$  | 1     | -             | 106        | т    | $\neg$        | +              | $^{-}$  | $\top$  |          |          | $\neg$   |
|       | 7        | V             | V       | A             | A        | T        | $\vdash$ | T        | $\vdash$ | 1 |          | 57        | П | $\Box$    | 7        | $\neg$        | _          | $\top$  | $\top$  | $^{+}$  | 1     |               | 107        | П    | $\neg$        | $^{\dagger}$   | $^{+}$  | $^{+}$  | т        |          | $\neg$   |
|       | 8        | ٧             | ٧       | Α             | Ξ        | =        | =        | ٧        | П        | 1 |          | 58        | П | П         |          | T             | T          | $\top$  | $\top$  | т       | 1     |               | 108        | П    | $\neg$        | T              | $\top$  | т       | Т        |          |          |
|       | 9        | ٧             | ٧       | Α             | Ξ        | =        | Ξ        | ٧        | П        | 1 |          | 59        | П | П         | П        | $\neg$        | Т          | Т       | Т       | Т       | 1     |               | 109        |      | П             | Т              | Т       | Т       |          |          |          |
|       | 10       | V             | ٧       | Α             | =        | =        | =        | V        |          | 1 |          | 60        |   |           | П        | П             | П          | Т       |         | Т       | 1     |               | 110        |      | П             | Т              | Т       | Т       |          |          |          |
|       | 11       | ٧             | ٧       | Α             | =        | =        | =        | V        |          | ] |          | 61        |   |           |          |               |            |         |         |         | ]     |               | 111        |      |               |                |         |         |          |          |          |
|       | 12       | V             | V       | Α             | =        | =        | =        | V        |          | J |          | 62        |   |           |          |               |            |         |         |         | J     |               | 112        |      |               |                |         |         |          |          |          |
|       | 13       | V             | ٧       | Α             | =        | =        | =        | V        | $\perp$  | 1 |          | 63        | Ш |           | _        | _             | _          | $\perp$ | 1       | 1       | 1     |               | 113        | Ш    |               | _              | _       | $\perp$ | 1        |          |          |
|       | 14       | ٧             | V       | Α             | =        | =        | =        | 0        | ш        | 1 | <u> </u> | 64        | Ш |           | _        | _             | _          | $\perp$ | 1       | $\perp$ | 1     |               | 114        | ш    |               | 4              | _       | $\perp$ | 1        |          |          |
|       | 15       | V             | ٧       | Α             | =        | =        | =        | 0        | ш        | 1 |          | 65        | Ш |           | _        | 4             | _          | 4       | _       | ┸       |       |               | 115        |      | $\perp$       | 4              | _       | $\perp$ | _        |          | _        |
|       | 16       | V             | ٧       | Α             | =        | =        | =        | ٧        | ш        | 1 |          | 66        | Ш |           | _        | 4             | 4          | 4       | _       | ┸       |       |               | 116        | ш    | $\perp$       | 4              | 4       | $\perp$ | _        |          | _        |
|       | 17       | V             | ٧       | Α             | =        | =        | =        | 0        | ш        | 1 |          | 67        | Ш | Ш         | _        | _             | _          | 4       | _       | _       |       |               | 117        |      | $\perp$       | _              | _       | $\perp$ |          |          | _        |
|       | 18       | ٧             | V       | Α             | =        | =        | =        | 0        | ш        |   | _        | 68        | Н | Н         | _        | 4             | 4          | 4       | _       | ╄       |       |               | 118        | ш    | $\perp$       | 4              | +       | +       | 1        |          | _        |
|       | 19       | ٧             | ٧       | Α             | =        | =        | =        | 0        | ш.       |   |          | 69        | Н | _         | _        | 4             | 4          | 4       | _       | ╄       |       |               | 119        |      | $\vdash$      | 4              | +       | +       | -        |          | _        |
| _     | 20       | ٧             | ٧       | Α             | =        | =        | =        | 0        | Н-       |   | _        | 70        | Н | $\dashv$  | -        | $\dashv$      | -          | +       | +       | ╀       |       | $\vdash$      | 120        |      | $\rightarrow$ | +              | +       | +       | $\vdash$ |          | $\dashv$ |
| _     | 21       | _             | _       | _             | ⊢        | $\vdash$ | ⊢        | -        | Н-       |   | _        | 71        | Н | _         | _        | $\dashv$      | -          | +       | +       | +       |       | $\vdash$      | 121        |      | -             | +              | +       | +       | $\vdash$ |          | 4        |
|       | 22       | ⊢             | _       | -             | ⊢        | ⊢        | ⊢        | -        | -        | - | _        | 72        | Н | $\vdash$  | -        | $\rightarrow$ | -          | +       | +       | +       |       | $\vdash$      | 122        | Н    | $\rightarrow$ | +              | +       | +       | +        |          | $\dashv$ |
|       | 23       | $\vdash$      | _       | $\vdash$      | ⊢        | $\vdash$ | ⊢        | -        | -        | - |          | 73        | Н | $\vdash$  | -        | -             | -          | +       | +       | +       |       | $\vdash$      | 123<br>124 |      | $\rightarrow$ | +              | -       | +       | +        | $\vdash$ | _        |
| _     | 25       | $\vdash$      | -       | $\vdash$      | ⊢        | $\vdash$ | ⊢        | $\vdash$ | $\vdash$ | - | _        | 75        | Н | $\dashv$  | -        | $\dashv$      | +          | +       | +       | +       | ł     | $\vdash$      | 125        | Н    | +             | +              | +       | +       | +        | $\vdash$ | $\dashv$ |
| _     | 26       | $\vdash$      | -       | $\vdash$      | ⊢        | $\vdash$ | ⊢        | ⊢        | $\vdash$ | - | _        | 76        | Н | $\dashv$  | -        | $\dashv$      | -          | +       | +       | +       | {     | $\vdash$      | 126        | Н    | +             | +              | +       | +       | +        |          | $\dashv$ |
|       | 27       | $\vdash$      | -       | $\vdash$      | ⊢        | $\vdash$ | ⊢        | $\vdash$ | +        | ┨ | -        | 77        | Н | $\dashv$  | $\dashv$ | $\dashv$      | +          | +       | +       | +       | 1     | $\vdash$      | 127        | Н    | +             | +              | +       | +       | +        | H        | $\dashv$ |
|       | 28       | $\vdash$      | -       | $\vdash$      | Н        | ⊢        | ⊢        | ⊢        | +        | ┨ | -        | 78        | Н | Н         | -        | +             | +          | +       | +       | +       | 1     | -             | 128        | Н    | +             | +              | +       | +       | +        | H        | $\dashv$ |
|       | 29       | $\vdash$      | -       | $\vdash$      | Н        | $\vdash$ | ⊢        | $\vdash$ | $\vdash$ | ┨ |          | 79        | Н | $\dashv$  | $\dashv$ | +             | $\dashv$   | +       | +       | +       | ł     | H             | 129        | Н    | +             | +              | +       | +       | +        | H        | $\dashv$ |
|       | 30       | $\vdash$      | -       | $\vdash$      | -        | $\vdash$ | $\vdash$ | ╁        | $\vdash$ | ┨ |          | 80        | Н | $\dashv$  | $\dashv$ | +             | $\dashv$   | +       | +       | +       | 1     | $\vdash$      | 130        | Н    | +             | +              | +       | +       | +        |          | $\dashv$ |
|       | 31       |               | _       |               | Н        | H        | Н        | -        | +        | 1 |          | 81        | Н | $\dashv$  | -        | -             | +          | +       | +       | +       | 1     | $\vdash$      | 131        | Н    | +             | +              | +       | +       | +        | $\vdash$ | $\dashv$ |
|       | 32       |               | _       |               | Н        |          | Н        |          | H        | 1 |          | 82        | Н | $\dashv$  | _        | _             | +          | $^{+}$  | +       | +       | 1     |               | 132        | Н    | +             | +              | +       | +       | +        |          | $\neg$   |
|       | 33       | $\vdash$      |         |               |          |          | $\vdash$ | t        |          | 1 |          | 83        | Н |           | _        | _             | _          | $\top$  | +       | $^{+}$  | 1     |               | 133        |      | $\neg$        | +              | $\top$  | +       | t        |          |          |
|       | 34       |               |         |               |          |          | -        |          | $\vdash$ | 1 |          | 84        | Н |           | _        | 7             | _          | $\top$  | $\top$  | $^{+}$  | 1     |               | 134        |      | $\neg$        | +              | $^{+}$  | $^{+}$  | T        |          |          |
|       | 35       | $\overline{}$ |         | $\overline{}$ | $\vdash$ | $\vdash$ | $\vdash$ |          | $\vdash$ | 1 |          | 85        | П | $\neg$    |          | _             | _          | $\top$  | $\top$  | $^{+}$  | 1     | $\overline{}$ | 135        | П    |               | _              | $\top$  | $\top$  |          |          | $\neg$   |
|       | 36       | Т             | Т       | Т             | $\vdash$ | т        | $\vdash$ |          | $\vdash$ | 1 |          | 86        | П | П         |          | $\neg$        | _          | $\top$  | $\top$  | $^{+}$  | 1     |               | 136        | П    | $\neg$        | _              | $\top$  | $\top$  | т        |          | $\neg$   |
|       | 37       | Т             | Т       | Г             | Т        | Т        | Г        |          |          | 1 |          | 87        | П | $\neg$    |          |               |            | T       |         | Т       | 1     |               | 137        | П    |               |                | $\top$  | $\neg$  |          |          | $\neg$   |
|       | 38       |               |         |               |          | -        |          | -        |          | 1 |          | 88        |   |           |          |               |            | -       |         | 1       | 1     |               | 138        |      |               | -              | -1      | 1       |          |          | П        |
|       | 39       | Г             | П       | Г             | Г        | Г        | Г        | Π        |          |   |          | 89        |   | $\neg$    | $\neg$   | $\neg$        | 7          | T       | T       | Т       |       |               | 139        |      | $\neg$        | T              | T       | Т       | Т        | П        | _        |
|       | 40       |               |         |               | Г        |          |          |          |          | 1 |          | 90        | П |           |          |               |            |         |         |         |       |               | 140        | П    |               | Т              |         | Т       | Т        | П        |          |
|       | 41       |               |         |               | Г        |          | П        |          |          |   |          | 91        | П |           | $\neg$   | $\neg$        | T          | T       | Т       | Т       |       |               | 141        |      |               | T              | Т       | Т       | Т        |          |          |
|       | 42       | L             |         | L             |          | L        | L        | L        | Ш        |   |          | 92        |   |           |          | J             |            |         | $\perp$ | L       |       |               | 142        |      |               |                | ┚       | I       | L        |          |          |
|       | 43       |               |         |               |          |          |          |          |          |   |          | 93        |   | T         | $\Box$   | T             | T          | Т       | T       | Г       |       |               | 143        |      | Т             | Т              | Т       | П       | Г        |          |          |
|       | 44       |               |         |               |          | L        |          | L        |          |   |          | 94        |   |           |          |               | $\perp$ T  | Ι       |         | Ι       |       |               | 144        |      |               | $\perp \Gamma$ |         | ⊥       | Γ        |          |          |
|       | 45       |               |         |               |          |          |          |          |          |   |          | 95        |   | $\Box$    | $\Box$   | $\perp$       | $_{\rm I}$ | $\perp$ |         |         |       |               | 145        |      | $\perp$       | _              | $\perp$ |         |          | $\Box$   |          |
|       | 46       |               |         |               |          |          |          |          |          | 1 |          | 96        |   |           | _1       | $\perp$       | _          | I       | I       |         | 1     |               | 146        |      | $\perp$       | I              | I       | Г       |          | П        |          |
|       | 47       |               |         |               |          |          |          |          |          | 1 |          | 97        | Ш |           |          |               |            | 4       | 1       | $\perp$ | 1     |               | 147        |      | $\perp$       | _              | _       | $\perp$ |          | Ш        |          |
|       | 40       | L.            |         | _             | L        | _        | _        | _        | $\perp$  | 1 | $\vdash$ | 98        | Ц | Ц         | _        | 4             | _          | 4       |         | 1       | 1     |               | 148        |      | 4             | 1              | 4       | 1       | 1        | Ц        |          |
|       | 49<br>50 |               |         | _             | $\vdash$ | $\perp$  | $\vdash$ | $\perp$  | $\perp$  | 1 | <u> </u> | 99<br>100 | Ш | _         | _        | 4             | 4          | 4       | $\perp$ | 1       | Į     | $\Box$        | 149<br>150 |      | $\perp$       | 4              | 4       | $\perp$ | 1        | Ш        | _        |